

JUMP

SOLUTIONS FOR EQUALITY AT WORK

WOMEN ARE READY FOR THE DIGITAL FUTURE

How can companies embark them and win the war for talent?

—● A STUDY CONDUCTED BY JUMP



—● with the support of

proximus

and



FÉDÉRATION
WALLONIE-BRUXELLES

INDEX

Early 2019, with the digital disruption impacting us all and re-shaping the job market, JUMP surveyed career women across Europe in 2019 to better understand how women perceived the impact of digital disruption and what they felt they needed to thrive in the digital economy.

In the following sections of this report, we will share their feedback and provide you with some hints and tips to ensure women and businesses succeed together in the future of work.

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SCIENTIFIC COMMITTEE

Alexandra Van Hille, Deloitte

Elke Jorens, Microsoft

Nele Van Malderen, Proximus

Claudia de Castro Caldeirinha, Redscope Consulting

Pascale Van Damme, DELL

Jeroen Franssen, Agoria

Claudine Schmuck, Global Contact

Saskia Van Uffelen, GFI & Digital Champion Belgium

COMMUNICATION PARTNERS

Agoria

Women in Leadership Europe

Laboratoire de l'Egalité

Centre Hubertine Auclert

FACE

Réseau Femmes du Numérique de Syntec

Simplon

Les femmes de l'ESR

INTRODUCTION



40 to 60 million women globally may need to transition between occupations and skills level. (...) Navigating transitions could put women on a path to more productive, better-paid work; failing to do so could worsen existing challenges.

THE FUTURE OF WOMEN AT WORK, MCKINSEY (2019)

The world is undergoing rapid change, and it will continue to exponentially change in the coming decades. Digital and technological disruption are at the very core of this process. Automation and Artificial Intelligence (AI) are transforming the way people work and impacting the very nature of jobs and skills required, leaving many obsolescent and creating huge skills gaps elsewhere. Managing this

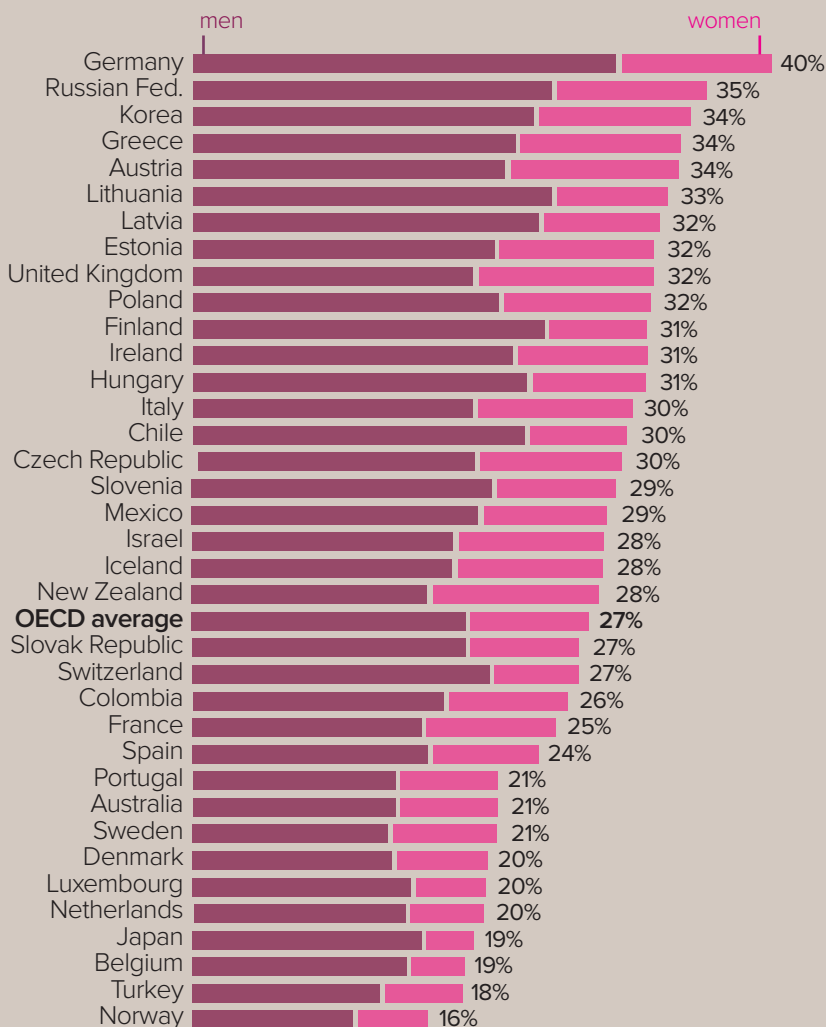
transition is the key challenge of today, for individuals, companies and governments.

Most countries, companies and societies are not yet prepared to deal with these major transformations. And amongst the four billion people excluded from the digital economy, women make up the majority (OECD, G20).

Research from leading organisations (European Union, World Economic Forum, OECD, United Nations, etc.) shows **gender gaps affecting women in the ongoing transformation at multiple levels**, in particular in:

HOW MANY STUDENTS STUDY STEM?

Percentage of new entrants into bachelor's programmes by gender (2017)



Source: Education at a Glance 2019 OECD



access to and use
of digital technologies



digital-related education,
including segregation across
fields of study between women
and men and girls and boys



digital labour market: women's
low participation in the digital
labour market and in particular
in high-quality jobs and top
management positions



The 2018 European Commission study “Women in the digital age” shows that the share of men working in the digital sector is 3.1 times greater than the share of women. There are four times more men than women in Europe with ICT-related studies, and the number of women following ICT-related higher education is dropping. With demand for digital skills rising but fewer women in the EU interested in participating in the digital sector, be it higher education, jobs or entrepreneurship, **gender equality risks going dramatically backwards in the next few years.**

By 2030, in Belgium there will be 584.000 vacant positions, while 310.000 employees will need to be retrained to ensure they have sustainable jobs.

AGORIA, BE THE CHANGE (2018)

*Learnability
is the skill
of the future*

MANPOWER (2017)

With digital transformation already at the door, society will need to adapt with new skills and new mindsets. New technologies will require increasingly specialist skills, and by 2022, businesses will require a proactive and inventive workplace strategy to help the 54% of the workforce who will require upskilling or reskilling. Employees will need to be responsive and agile, but also naturally capable of training and retraining throughout their career. Indeed, experts say that in the future an employee will need to retrain between 10 and 14 times on average throughout their working life and also in their own time.

“In this Skills Revolution, **learnability – the desire and ability to learn new skills to stay relevant and remain employable – will be the great equalizer**”, according to Manpower. Learnability is one of the most highly valued skills in companies today.

SHAPING THE FUTURE OF WORK

If more women were to enter the digital jobs market, it could create an annual EUR 16 billion GDP boost for the European economy

EUROPEAN COMMISSION (2018)

PURPOSE OF THE SURVEY

*SO WHERE DO WOMEN STAND IN TERMS OF UP-SKILLING AND
RETRAINING FOR THEIR FUTURE AT WORK?*

THIS IS THE KEY ISSUE WE INVESTIGATED IN THIS SURVEY.

JUMP, with the support of **Proximus** and the “**Fédération Wallonie-Bruxelles**”, conducted a survey on how career-minded women perceive and are willing to take part in ongoing digital transformations. The study reflects the opinions of 1403 ‘career-minded’ women across Europe who responded to the online survey. This survey was completed only by women.

The survey sheds light on the following questions:

a

ARE « CAREER-MINDED » WOMEN AWARE OF THE ONGOING DIGITAL TRANSFORMATIONS, AND HOW DO THEY PERCEIVE THEM?

b

ARE WOMEN WILLING TO UPDATE THEIR SKILLS IN ORDER TO ADAPT THE CHANGING TRENDS OF THE DIGITAL FUTURE?

c

WHAT WOULD MOTIVATE THEM TO UPSKILL AND ADAPT TO THE TRANSFORMATION? WHAT IS HOLDING THEM BACK?

d

WHAT SUPPORT WOULD THEY NEED?

This report presents the level of women’s awareness of the need to change and their readiness to adapt for the digital future.

It investigates women’s motivations to take part in the on-going digital transformation, but also the barriers that they are facing and the expectations they have.

Finally, solutions are proposed to overcome the barriers that would need to be implemented by both women and organisations. We have included some best practices and tips from companies and experts, to tackle the digital gender gap and win the war for female talent in tech.

IN SUMMARY

94% OF CAREER-MINDED WOMEN ARE AWARE OF THE NEED TO DIGITALLY UPSKILL

91% ARE PREPARED TO DO SO OR ALREADY DOING IT

BARRIERS FOR THOSE READY TO RETRAIN

51% LACK TIME

35% FEEL NO URGENT NEED

21% EXPECT EMPLOYERS TO DO SO

MOTIVATIONS FOR THOSE READY TO RETRAIN

51% BY THE APPLICATIONS / THEIR PURPOSE

41% BY THE INCREASED SALARY

32% BY THE CAREER OPPORTUNITIES

Women need to

TAKE OWNERSHIP ON THEIR LIFELONG LEARNING

CHOOSE THE COMPANIES THAT SUPPORT THEIR UPSKILLING

Employers need to

IDENTIFY AND ATTRACT WOMEN WITH THIS LEARNING AGILITY

PROVIDE A “WORK-LIFE-LEARN” BALANCE

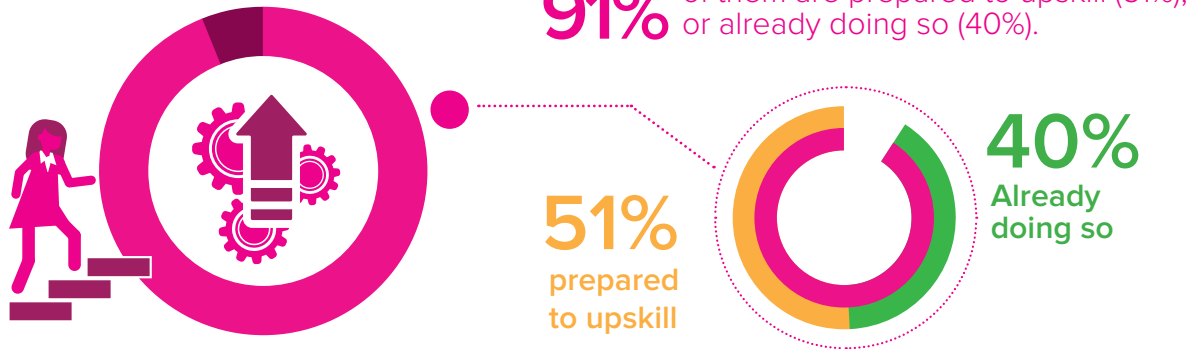
TACKLE THE NON-INCLUSIVE CULTURE OF THEIR DIGITAL TEAMS

THE FEMALE TALENT POOL IS THERE AND WAITING.
COMPANIES NEED TO PROVIDE THEM A WORK-LIFE-LEARN BALANCE

KEY FINDINGS FROM OUR SURVEY

WOMEN ARE READY TO DIGITALLY RETRAIN AND UPSKILL

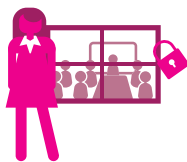
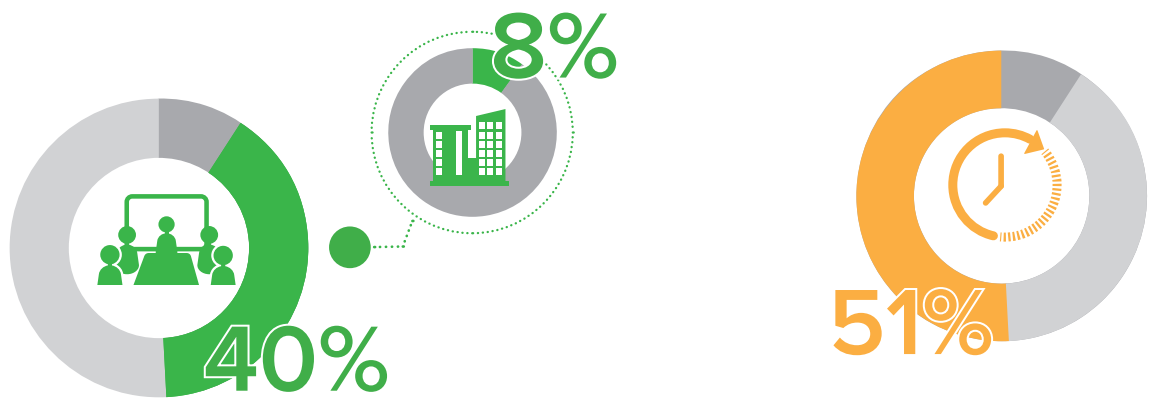
94% of career-minded women are aware that they will need to digitally upskill for their careers.



MANY ARE ALREADY INVESTING IN THEMSELVES (OR PLANNING TO DO SO)

40% of women are already investing in their digital upskilling, but only 8% are getting upskilling training from their employers.

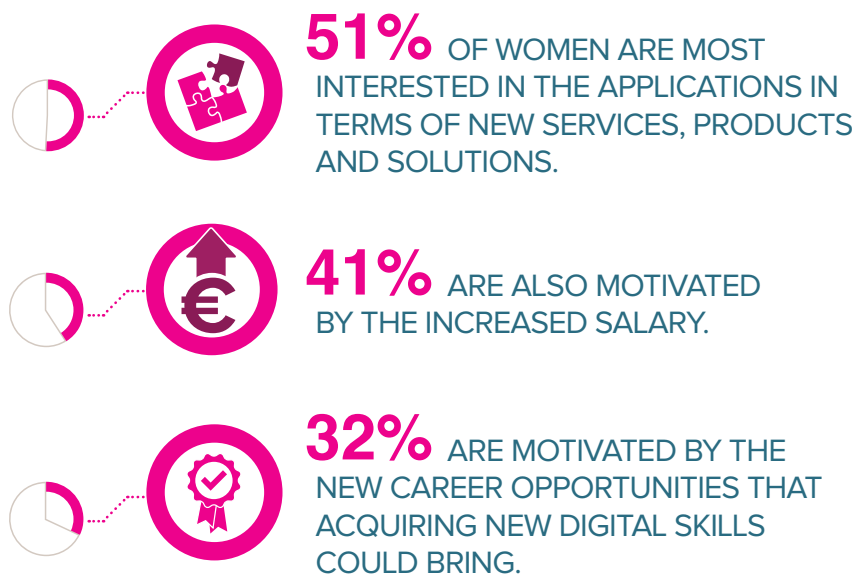
51% of women who say they are ready to retrain would even be **prepared to do so in their own time**.



When it comes to their retraining, women seem to be left mainly to their own devices.

PURPOSE IS THE DRIVER

For women to be motivated to take part in the digital transformation, they need to see the bigger picture.

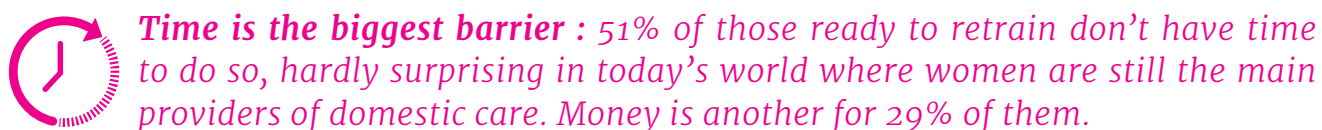


The survey shows that the number one driver for women is the **purpose**, rather than the technology itself.

This suggest that they will be more inspired by a service or application – and go acquire the digital skills to get it – rather than simply learn to code.

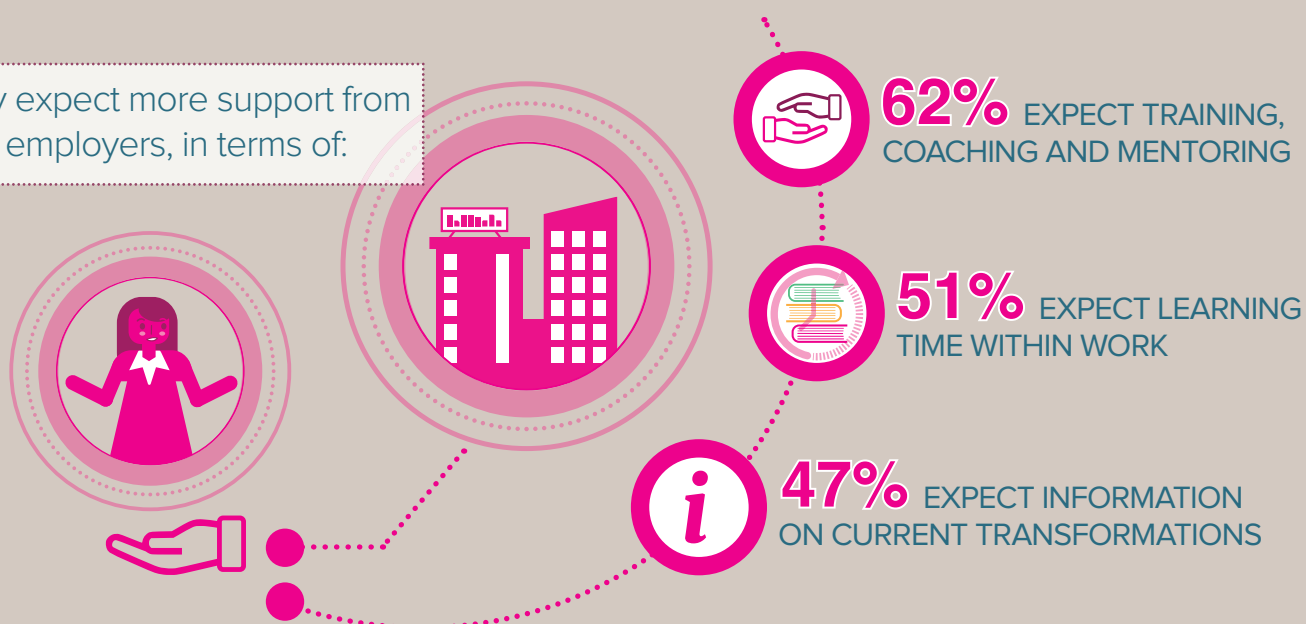
LACK OF TIME AND SUPPORT FROM EMPLOYERS IS THE BARRIER.

Why are women not retraining then?

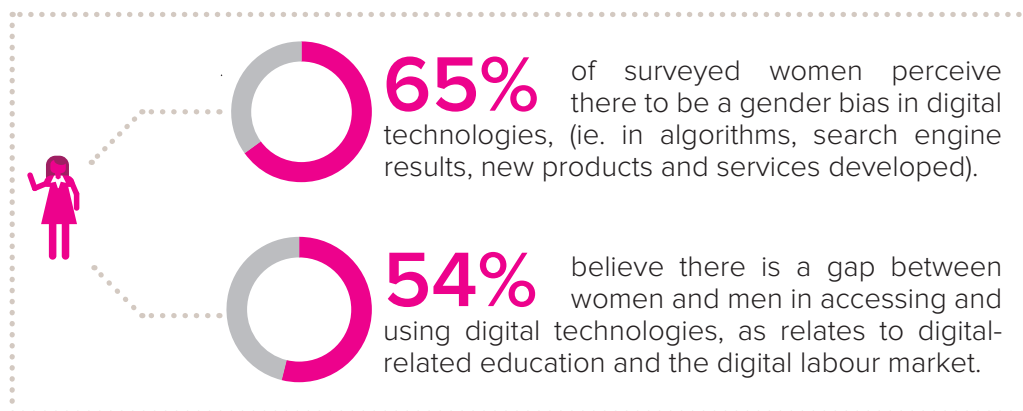
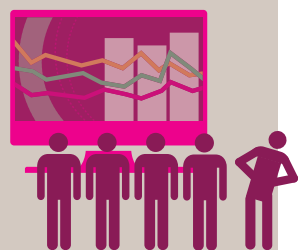


35% of those ready to retrain do not perceive the need to do so immediately for their jobs and 21% are simply waiting for their employers to take charge.

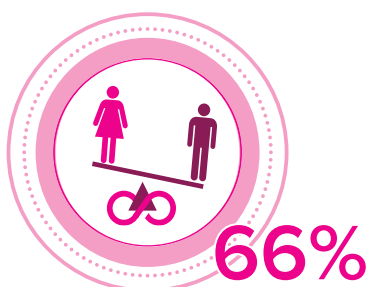
They expect more support from their employers, in terms of:



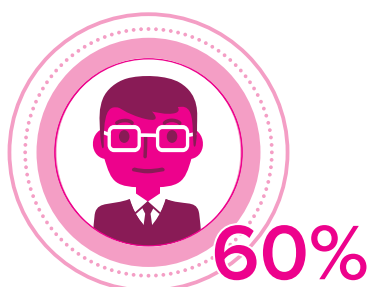
PERCEIVED GENDER-BIAS OF THE DIGITAL WORLD REMAINS AN OBSTACLE



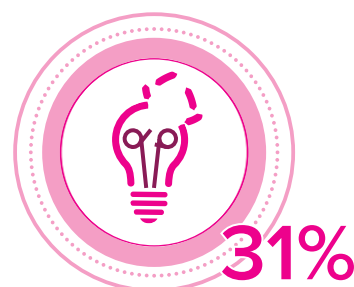
The three main reasons for this perceived gender gap and bias are seen to be:



persistence of gender bias and stereotypes (e.g. “women are less good at tech”)



cultural factors (e.g. male dominated cultures, “geek” culture)



insufficient information or awareness about digital technologies



There are around 20% women in tech, 12% women in AI, and it's getting worse. But the pipeline is not leaking, women are being forced out it. Women used to represent 30-50% of computing. As respect for programming and salaries improved, men moved in and changed the requirements for tech jobs. The field has been built into a hostile environment, with a culture of “women can't do tech”.

ALLISON GARDNER,
FOUNDER WOMEN LEADING IN AI,
TEACHING FELLOW AT KEELE UNIVERSITY



SOCIETY IS FACING A SKILLS REVOLUTION

Common effort needs to come from governments, companies and from the women themselves, in order to be ready for these changes.

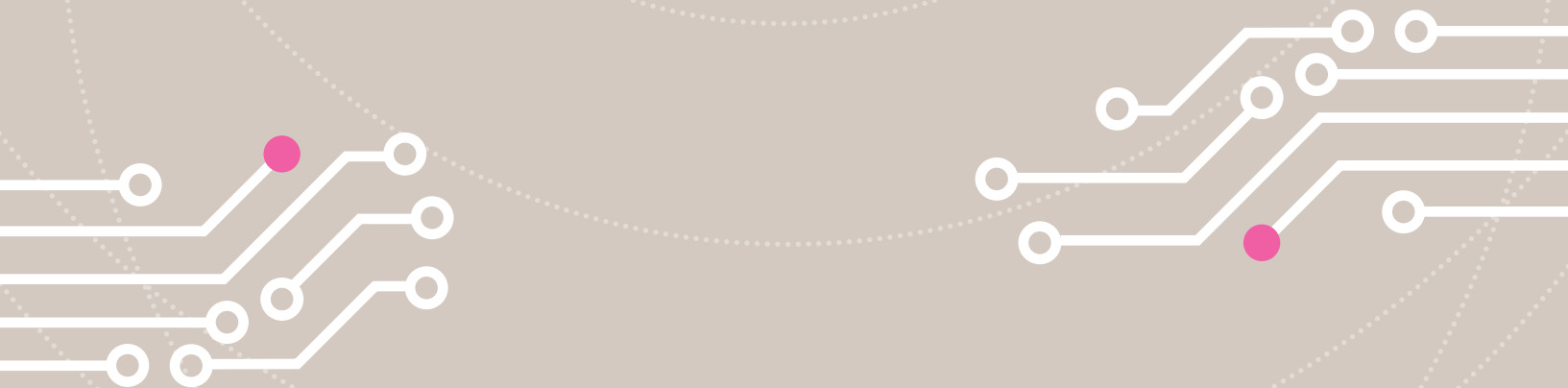
Companies must provide real support in terms of offering more information and building a learning environment. They will also need to tackle the gender stereotypes and gender biases as well as their organisational culture to provide a work environment that is more inclusive and attractive to women. Women, if they do not wish to be left behind in this race for digital and technological skills, need to take ownership of their future careers, build up their learning agility and open the discussion with organisations and companies to enable them to meet the challenges of the future of work.



It's urgent to start doing things and there is a good business reason to do so. We cannot make our results anymore if we do not succeed in getting diversity and inclusivity. The financial models are at the end, we are pulling on an elastic. We can still make the next quarter and the quarter after, and maybe the dividends, and maybe the next elections, but then it's over. We need to start doing things differently now, we need to change the culture of organisations.

SASKIA VAN UFFELEN

GFI CORPORATE VICE PRESIDENT BENELUX,
DIGITAL CHAMPION BELGIUM



MOVING FORWARD TO TACKLE THE DIGITAL GENDER GAP: TIPS FROM OUR EXPERTS



Extracts from the JUMP Forums Paris and Brussels 2019 on **Digital Transformation: How to turn risk into opportunity for Gender Equality** (<https://www.youtube.com/user/jumpforum/playlists>)

HOW TO EMBARK WOMEN IN THE DIGITAL REVOLUTION AND WIN THE WAR FOR FEMALE TALENT

Rethink your communication for tech jobs to attract more women

How do we attract more women to technology? At Dell, we learnt to **adapt our communications**. In the job descriptions for example, we put **words that are really appealing to women**. It's also important that we make sure it's not about technology - it's not about the bits and the bytes anymore, **it's about the purpose** of what technology is giving back to our society and community.

Pascale Van Damme (VP & GM at Dell Technologies in Belux and Head of Nato Business, President Federation Agoria Digital Industries)

Make women in the candidate list a pre-requisite

When we have open positions, if we don't have women in the candidate pool, **I refuse to move forward**. I don't believe that for any open job description we have, it's not possible to find strong capable women.

Pascale Van Damme (Dell)

Make sure your hiring panels are gender-balanced

The young women applying for tech jobs only see men and it's scary. They don't want to be the only female developer in a team of only men in a geek, basement culture where they might be the target of sexist jokes.

Céline Parsoud (Founder of Gender Busters)

Screen in rather than screen out for jobs

Not only do we make sure we have women in the candidate pool, we make sure we hire women by screening in vs screening out for the job. We used to assess experiences and knowledge; when you have a candidate, you usually make your decision on whether she or he doesn't fit the requirement on this and this angle. Then you get stuck, as not many women, let alone men, have the in-depth technological experience you need. When on these requirements the person is missing a certain experience, we look at which of them can we develop. So we reverse the screening out process by screening in. It's a fundamental shift.

Elke Jorens (Snr. Director, Head of Talent Acquisition EMEA at Microsoft)



We used to assess on experiences and knowledges. Now we assess for transferable competences such as learning agility, adaptability, growth mindset – which will help the person transfer to the next job.



ELKE JORENS

SNR. DIRECTOR, HEAD OF TALENT ACQUISITION EMEA
MICROSOFT

Re-skill or up-skill your existing talent

There is a strong digital gap within the companies due to digital transformation, and when companies are starving for these competencies, they don't think about their own internal talent and they don't think about the women who could be candidates for IT and tech jobs. We are working on reskilling and upskilling programmes in companies to use their own talent, especially in banks at the moment, leveraging digital skills to empower women within banks to go from customer service front office to the IT department.

Frédéric Bardeau (Founder of Simplon)

Tackle the macho-culture of tech departments and organisations

We need to fight self-censorship and the macho-culture in tech, both in the mindsets of women and men and in the companies trying to hire women.

Frédéric Bardeau (Simplon)

Use reverse-mentoring

You have digital talents within your organisation, and the younger generations can be an asset to develop the skills of the older generations.

Frédéric Bardeau (Simplon)

Develop an internal culture of learning and growth mindset

At Microsoft we have launched a culture of growth mindset. With growth mindset, it's no longer about knowing it all, it's now about learning it all - it's about life-long learning.

Elke Jorens (Microsoft)



Young women don't feel welcome in tech schools and don't feel welcome in tech companies. They have to develop an "avoidance strategy" and change their behaviours to prepare for sexism. In a world of only men, they stop being feminine to avoid attracting attention, they start acting like guys, they even play the game of sexist jokes as it's easier to tell them than to be the target of them.

CÉLINE PARSOUD
FOUNDER OF GENDER BUSTERS



Use the existing echo-systems of actors in women & digital

If you want to scale, you do not have time to waste waiting for the next generation to arrive on the job market or exploring the best practices. Use existing open-source resources - for example the Digital Ladies & Allies White Paper «Mixité et performance numérique». And connect with schools, associations and organisations - such as Simplon or Ecole 42 - that are already working on women and coding and that can help you get concrete results and scale quickly.

Merete Buljo (Chief Digital & Customer Experience Officer, BPCE Eurotitres and President & Founder of Digital Ladies & Allies)



You need to start with your culture, building a culture from the top to the bottom, where people have the time to learn and to upgrade their skills. You need to create that time and support your people so they will be able to upgrade their skills.

PASCALE VAN DAMME
VP & GM AT DELL TECHNOLOGIES IN BELUX AND HEAD OF NATO BUSINESS, PRESIDENT FEDERATION AGORIA DIGITAL INDUSTRIES



Build a culture of inclusion

If we want more gender balance in ICT, we need different education and different culture in companies. When I started at Proximus, the company was very masculine, very hierarchical. The first thing I did was not about gender balance but about culture, to change the culture of the company and put in place a more inclusive, feminine, with values of collaboration, openness and transparency. And this takes time.

*Dominique Leroy (Former CEO of Proximus,
Senior advisor)*

Encourage a culture of appreciative understanding

Understand that everyone is different, that we do not always agree. I recognise and appreciate your difference of opinion, you appreciate mine. That's valid for gender, culture, generations.

Saskia Van Uffelen (GFI Digital Champion Belgium)

Measure and monitor to ensure impact

With HR, we have decided to look at the measures. We will make sure we measure how many women in the leadership team, ensure that on every succession plan we have at least one woman, look at how many women we hire, how many women we have in our ALD programme. And we will have an objective that we will monitor every year. This will ensure that things continue even when the top management changes.

Dominique Leroy (Senior advisor)

Be CEO of your own life and take responsibility for your own training

Everyone needs to be CEO of their own life and develop a skillset that they will need for tomorrow. Employers are not the only one responsible for the training of their employees, you are responsible for yourself too and need to develop the competence you will valorise going forward.

Saskia Van Uffelen (GFI Digital Champion Belgium)



HOW TO BEAT GENDER BIAS AND STEREOTYPES IN AI AND BIG DATA



One of the biggest risks that we face in the digital society is in Artificial Intelligence, where algorithms today are made by men, for men. The better balance we have created in society today will disappear in society tomorrow if we do not have enough women and non-white male men to programme the algorithms. For example, in job searches, there is a bias in the algorithms that favours men rather than women, and this could actively contribute to perpetuating the lack of women in ICT.

DOMINIQUE LEROY

FORMER CEO OF PROXIMUS, SENIOR ADVISOR



Understand where bias comes in at the different points of the AI development process

Algorithms will not solve bias because they are built through human decisions and biased data. The “black box” argument does not work. You need to be careful about the over-reliance on algorithms and thinking they are perfect. Datasets are 20% dirty and humans spend time cleaning them up. Humans select the features which the algorithm will consider more important and relevant than others, and they are the ones looking at the data coming out of the algorithms and making decisions based on them – where the cut-off points are, how many false-positive we allow... These are all points where bias creeps in.

Allison Gardner (Founder Women Leading in AI, Teaching Fellow at Keele University)

Consider the ethics of your algorithms and ensure you have AI impact assessments

We need to create the environment where it becomes a requirement to stop these attitudes. This will happen through regulation in A.I., based on GDPR, algorithmic impact assessments, algorithmic audits, certification, A.I. Fairness stamps, citizen’s panels... You can’t just introduce AI and think this will be a “cure-all”; you’re going to be expected to have some level of ethical production.

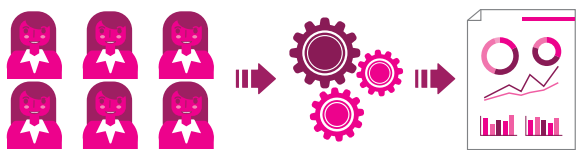
Allison Gardner (Women Leading in AI Keele University)

Ensure you have diverse teams

Bias happens because of the lack of diversity in the development process for A.I. and you start building in unconscious bias because you do not have diverse teams.

Allison Gardner (Women Leading in AI Keele University)

NOTE ON THE METHODOLOGY AND PARTICIPANT PROFILE



The profile of the female respondents reflects that of JUMP’s online community, representative of “career-women” rather than of all women and with a higher level of education than the population average.

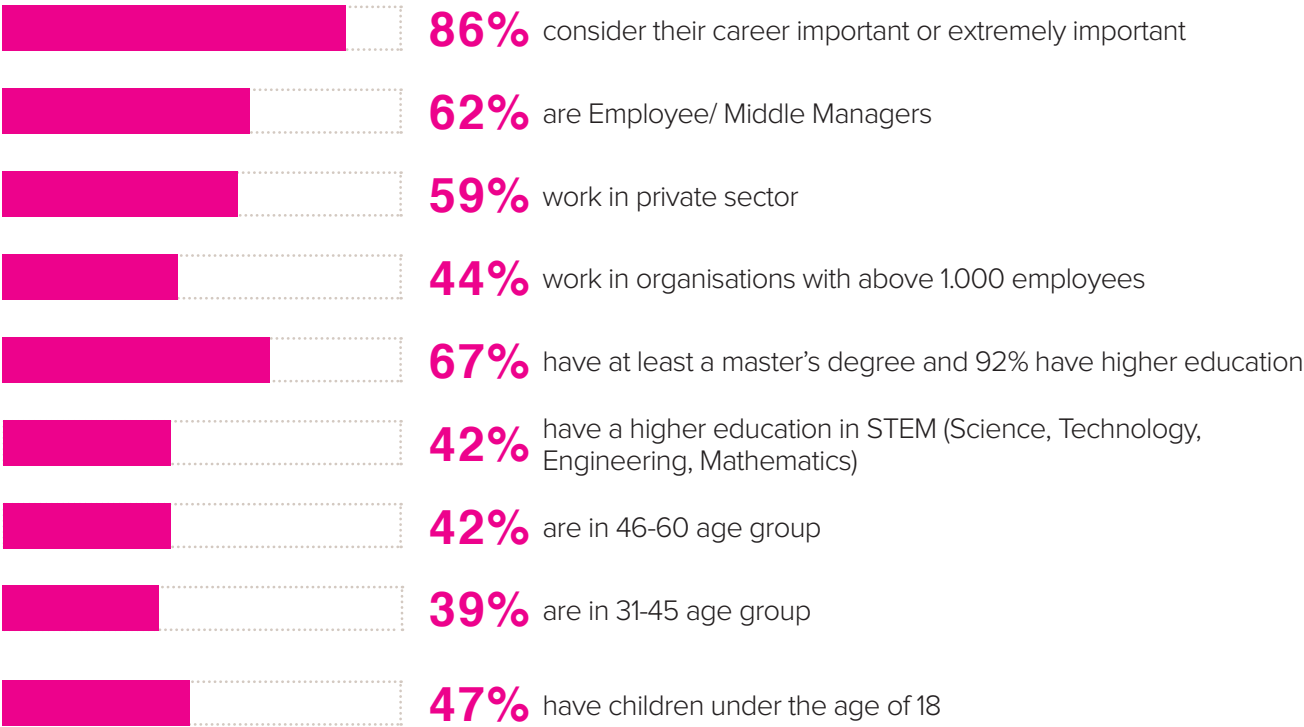
This survey was sent in Spring 2019 to the JUMP online community in Europe, mainly in Belgium and France. Women only were invited to respond to the questionnaire, available only in English.

We also note a higher than average response of women educated in STEM (Science, Technology, Engineering, Mathematics), probably influenced to participate by the title of the survey itself.

In total the survey had 1403 respondents, of which 951 fully completed the questionnaire. The analysis was done on the total respondents for each question.

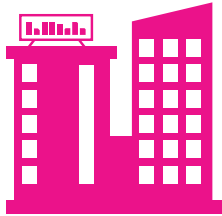
The country of residence of the respondents is mostly (75%) Belgium and France . The over-representation of these two countries can be explained by JUMP offices location in Brussels and Paris.

Detailed profile of our “career women” respondents is as follows:



CONCLUSIONS

WHAT ORGANISATIONS CAN DO



Companies can create an environment where the life-long learning is implemented and where **“work-life-LEARN” balance** is possible. This means allowing employees to invest time within their work hours for retraining and reskilling, to develop key skills that the company will need in the future - or even sooner!

The organisations can create the right framework by **changing the culture of the working teams** (by changing the internal working processes and methodologies, by expanding the awareness within the organisation of the gender biases and stereotypes, etc). The company's culture is a way for attracting people.

Companies can develop **the right communication presenting the bigger picture** of the opportunities the digital transformation has to offer. Purpose of technology and what can be achieved with it needs to be part of the selling strategy.

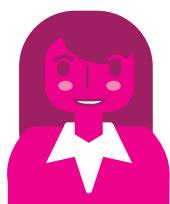
Companies can be open-minded and **intentional in their hiring processes** and look for people who do not necessarily have a science degree for their IT missions but find those who have the learning agility. The Data News Salaries survey shows that only 6 out of 10 computer scientists today have received formal IT-related training, while others took the path of the informal self-education. The informal training should be recognised, accepted and praised during the hiring procedures.



On average, employees will need 101 days of retraining and upskilling in the period up to 2022. We will all need to become lifelong learners. A comprehensive approach to workforce planning, reskilling and upskilling will be the key for positive, proactive management of (digital) trends.

WORLD ECONOMIC FORUM 2018

WHAT WOMEN CAN DO



Women can take **ownership of their careers**. Becoming pioneers, early adopters and change agents, will benefit their careers and the environment in which they operate, as it will affect others.

Women can take **time for learning**. Digital skills and learning should be part of women's development personal plan.

Women can **choose organisations** that can offer them the right environment for learning and for professional growth, as well as those with an inclusive work environment.

Women can **step into digital roles without a formal science degree**. Informal trainings, self-education can bring them valuable new skills needed for the digital roles. Business acumen, project management and team-working skills can be useful for many roles in tech too.

*Work-Life-Learn :
the new balance*

*Re-skill or up-skill
your existing talent*

LEARN MORE

THE FREE RESOURCES OFFERED BY JUMP



SURVEYS

ANALYSE WOMEN, MEN AND CORPORATE PRACTICES
ON GENDER EQUALITY



How to Get More Women
into Leadership Roles?
2018

Pioneering dads reverse
traditional roles
2013

Concilier vie professionnelle
et suivi scolaire des enfants
2009



Where do we stand
on sexism
2016



Do Men Want Equality
in the Workplace
2015



Women leaders
in the workplace
2012



L'entrepreneuriat
féminin en Belgique
2010

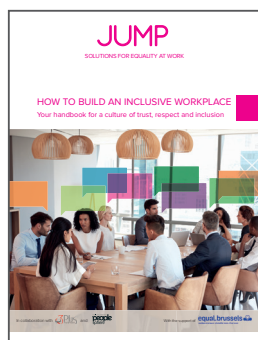
www.jump.eu.com/studies



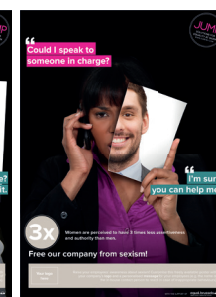
HANDBOOKS & POSTERS

JUMP FREE HANDBOOKS
Free your company from sexism
How to build an inclusive workplace

JUMP FREE POSTER CAMPAIGN TO RAISE
AWARENESS AGAINST SEXISM IN THE
WORKPLACE



www.jump.eu.com/resources/sexism



www.jump.eu.com/resources/sexism



TOOLBOXES

SELECTION OF USEFUL READINGS ON CRITICAL TOPICS

- Flexible and agile workplaces
- Mentoring & Sponsorship
- Assess your diversity programme and measure your level of inclusion

- Managing gender and generations: the end of "careers" as we know them?
- Inclusive leadership: What does it mean in practice?

www.jump.eu.com/resources-toolboxes

JUMP SOLUTIONS FOR EQUALITY AT WORK

JUMP can provide expert support to accompany your organisation on its journey towards equality and inclusion:

■ DIAGNOSTIC SURVEY

Evaluate the level of inclusiveness of your corporate culture and analyse your employees' perceptions of inclusion, career opportunities and gender equality

■ CONFERENCES, WORKSHOPS & TRAININGS

Inspiring conferences and customised workshops with the best international or local experts and speakers to drive diversity networks, strengthen the female talent pool and engage managers and leaders in building a culture of inclusion

■ EMPLOYER BRANDING, EVENTS & COMMUNICATION

Expert support to organise your diversity or recruitment events and effectively communicate your work on diversity and inclusion

More information on: www.jump.eu.com/academy and www.jump.eu.com/consulting

To receive a proposal:  info@jump.eu.com



INSPIRATION FOR CAREER-MINDED WOMEN

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groups/71498](https://linkedin.com/groups/71498)



info@jump.eu.com

The survey and booklet were developed by

JUMP

SOLUTIONS FOR EQUALITY AT WORK

Coordinated by Isabella Lenarduzzi

Written by Christine Cecil

In collaboration with Katja Legisa
Mathilde Haulon
Paulette Bombled
Stéphanie Tinel

JUMP is the leading social enterprise working with organisations and individuals to close the gap between women and men at work, achieve sustainable corporate performance and a more equal society.

JUMP organises leading training events in Brussels, Paris and Lyon on gender equality, inclusion and women's career, as well as consulting and training services to businesses all over Europe seeking gender balance.

Visit our website: www.jump.eu.com

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WWW.JUMPforMe.EU

JUMP Brussels

+32 (0)2 346 32 00

+32 (0)2 346 38 00

info@jump.eu.com

JUMP Paris

paris@jump.eu.com



Everyone A Changemaker™

Our founder Isabella Lenarduzzi is a Ashoka Fellow. Ashoka Fellows are social entrepreneurs who are recognised to have innovative solutions to social problems and the potential to change patterns across society.